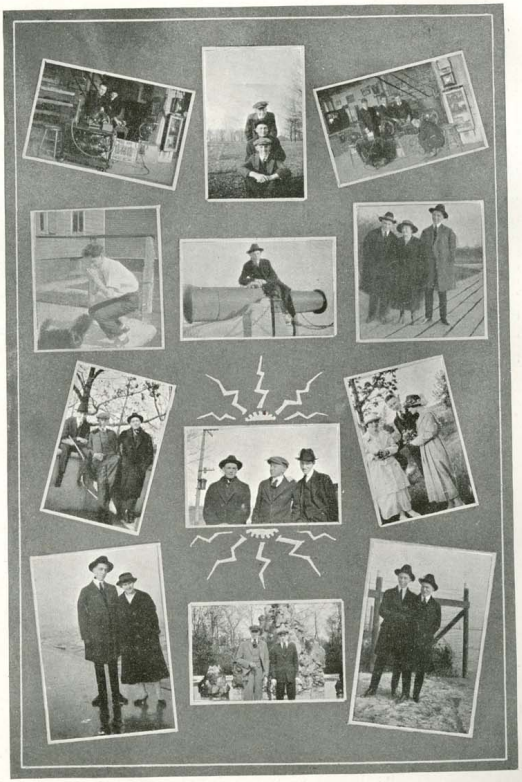
Boy Scouts

During the past year several Boy Scouts have been attending lectures given every Monday evening in the class-rooms of the School of Engineering. This work has been under the direct care of Prof. W. E. Hennig, who was assisted by Prof. O. Werwath and Prof. F. C. Raeth. The lectures were originally confined to subjects in Wireless Telegraphy, but because war conditions made it necessary that all amateur wireless stations be closed, the classes in general electricity and practical laboratory work were organized instead. The Scouts have displayed great interest in the work and several of them have advanced to such a stage that they are able to take an examination in Elementary Electricity. Those who are successful in passing this test, which will be given by members of the School Faculty, will receive a Merit Badge. Those who were regular in attendance are as follows: James Blackburn, Harold Bowers, Rollin Buddenhagen, John A. Dillman, James Douglas, Albert Hallman, Carl Hatch, Selden Irwin, James H. Kennan, Arthur Kletzsch, Donald Laun, Philip Rogers, John G. Seidel, Ralph Singles, Edwin Sorenson, Stanley Sorenson, Walter Steinegger, Herbert Wilhoit, Wm. D. Young, Frank Yosing and Herbert Zetterlund.



Formal Opening and Electrical Exhibition

One of the most important events in the history of the School of Engineering was the formal opening of the new quarters in the Insurance Building, 373 Broadway.

While the Engineering Department and General Offices have occupied these quarters since January first, 1918, the formal opening was deferred until March twenty-seventh, at which time the occasion was celebrated by appropriate exercises and dedication ceremonies, including the presentation and the receiving of the school's new charter. At the same time occurred the formal opening of a big Electrical Show, held under the auspices of the school, in the Stroh Bldg., the school's new quarters, and also on the second floor of the Insurance Bldg. During the exhibit experiments and tests were made by the students of the school, who received many compliments from our guests for the excellence of their work.

The complete program is given in the following pages.

Opening Day

WEDNESDAY, MARCH 27

7:30 P. M. Parade of entire school by classes from Stroh Building to Insurance Building.

7:45 P. M. Reception in second floor rotunda of Insurance Building.
Unfurling of National and Service Flags and School Banner.
Singing of National Anthem, The Star Spangled Banner.

8:00 P. M. Address of welcome to new quarters by our President, O. Werwath.
Opening Address.
Presentation of new charter of school to Dean Wm. Baum.
Acceptance of charter by the Dean and dedication of new quarters to our students.
Reply by student of the school.
Presentation of School Banner, donated by the Ladies.
Benediction.
Singing of National Song, My Country 'Tis of Thee.

8:25 P. M. Formal Opening of School and Electrical Exhibition to the Public at Insurance and Stroh Buildings.

8:30 P. M. "The Electrical Home," a moving picture film, at the Exhibition Hall, Second Floor, Insurance Building.
"Industrial Electrical Heating," a lecture illustrated by slides, at Room 157, Fifth Floor, Insurance Building.

Electrical and Industrial Day

THURSDAY, MARCH 28

2:30 P. M. Exhibits illustrating uses of Electricity in the War and Industries in operation; in the second floor Exhibition Hall and School Rooms in the Insurance Building and at our Laboratories in the Stroh Building.

2:30 P. M. "Making of An American," a moving picture film, at the Exhibition Hall, Second Floor, Insurance Building.

2:45 P. M. "Effect of Industrial Lighting on Factory Safety and Production," a lecture illustrated by slides, by John A. Hoeveler, Illuminating Engineer, Wisconsin Industrial Commission, at the Exhibition Hall, Second Floor, Insurance Building.

2:45 P. M. "Making a Convert," a moving picture film, at Room 157, Fifth Floor, Insurance Building.

3:30 P. M. "Conserving Man Power to Win the War," a lecture illustrated by slides, by R. T. Solensten, Deputy, Wisconsin Industrial Commission, at Room 157, Fifth Floor, Insurance Building.

7:30 P. M. Address on Our Industries.

8:00 P. M. "King of the Rails," a moving picture film, at Room 157, Fifth Floor, Insurance Building.
"History of Flying and Aircraft of This War and After," a lecture illustrated by slides, by A. J. Dufour, at Exhibition Hall, Second Floor, Insurance Building.

Patriotic Day

FRIDAY, MARCH 29

2:30 P. M. Exhibits illustrating uses of Electricity in the War and Industries in operation; in the second floor Exhibition Hall and School Rooms in the Insurance Building and at our Laboratories in the Stroh Building; continuing through the afternoon and evening.

2:30 P. M. "Capturing and Recapturing the Submarine by Magnetism," a moving picture film, at the Exhibition Hall, Second Floor, Insurance Building.

3:00 P. M. Patriotic Address by Wheeler P. Bloodgood, Acting Chairman, Milwaukee County Council of Defense, at the Exhibition Hall, Second Floor, Insurance Building.

4:00 P. M. "The Benefactor," Life of Mr. Edison, a moving picture film, at Room 157, Fifth Floor, Insurance Building.

4:30 P. M. "Illumination of the Home," a lecture illustrated by slides, at Room 152, Fifth Floor, Insurance Building.

Patriotic Address by Lieutenant G. M. Weichelt, United States Naval Reserve Force, at the Exhibition Hall, Second Floor, Insurance Building.

5:00 P. M. "Romance of the Old-Time School," a moving picture film, at Room 157, Fifth Floor, Insurance Building.

8:00 P. M. Patriotic Address by W. A. Hayes, Chairman of the General Council and Executive Committee of Wisconsin Loyalty Legion, at the Exhibition Hall, Second Floor, Insurance Building.

8:30 P. M. Talk on "Aviation in the War," by Ralph Fulcher, Aviator, Vice-President, Bud-Morriss Airplane School, with demonstration by means of actual scouting aeroplane, at the Exhibition Hall, Second Floor, Insurance Building.

8:30 P. M. "Si Smith's Conviction," a moving picture film, at Room 157, Fifth Floor, Insurance Building.

Students' Day

SATURDAY, MARCH 30

10:00 A. M. Exhibits illustrating uses of Electricity in the War and Industries in operation; in the second floor Exhibition Hall and School Rooms in the Insurance Building and at our Laboratories in the Stroh Building; continuing through the afternoon and evening.

10:30 A. M. Reception and address of welcome by Professor John D. Ball to high and public school students, the guests of the students of the School of Engineering, at Room 157, Fifth Floor, Insurance Building.

10:45 A. M. Address by Dean Wm. Baum, "Relation of Engineering Education to the Industries," at Room 157, Fifth Floor, Insurance Building.

11:15 A. M. Examination of Boy Scouts' Radio Club, by Pres. O. Werwath.
Presentation of Boy Scout Badges of Merit.
Presentation of gold medal to highest electricial graduate.
Presentation of gold medal for best thesis in engineering.

2:00 P. M. "Every Husband's Opportunity," a moving picture film, at Room 157, Fifth Floor, Insurance Building.

2:30 P. M. Address to students and their guests by Milton C. Potter, Superintendent of Public Schools, at the Exhibition Hall, Second Floor, Insurance Building.

7:30 P. M. "Fan Motor Manufacture," a moving picture film, at the Exhibition Hall, Second Floor, Insurance Building.

8:00 P. M. "Electric Motor and Its Application," a moving picture film, at Room 157, Fifth Floor, Insurance Building.
"Fairy Magic," a moving picture film, at the Exhibition Hall, Second Floor, Insurance Building.

8:30 P. M. "Machine Tool Motor Application," a moving picture film, at Room 157, Fifth Floor, Insurance Building.
"Lighting Your Store to Attract the Customer," a lecture with illustrated slides, by F. H. M. Riley, Illuminating Engineer, at the Exhibition Hall, Second Floor, Insurance Building.

8:45 P. M. "Voltage Transformers and Their Functions," a lecture with illustrated slides, at Room 152, Fifth Floor, Insurance Bldg.

9:15 P. M. Dance and entertainment for students and guests.

Co-operative Technical Education

An account of the school-life of the year would be incomplete without a mention of the system whereby our students are employed in the industries while pursuing their studies.

The system of *"Earn while you Learn"* as originated by the School of Engineering of Milwaukee, is undoubtedly the most practical method offered by any institution whereby a young man may obtain a thorough education in Practical Electricity, Commercial Engineering or Electrical Engineering.

The plan which is proving most successful, is the outgrowth of 15 years experience in teaching the Electrical Science and at the same time keeping in close touch with the advance in the industry and the requirements thereof. The training and subsequent careers of many hundreds of men have been carefully analyzed and the following conclusions drawn:

1. Many worthy young men fail to obtain technical training due to lack of funds.

2. The usual methods of working one's way through school are not in themselves educational and the student receives very low compensation. Such jobs as washing dishes, waiting on table, tending furnaces, etc., require from three to five hours a day of the student's time and rarely pay more than the value of his table board. A student so employed, unless of exceptional ability, sacrifices much of his school work to earn less than his bare living expenses.

3. The average technical graduate, even if given a good foundational training, is unacquainted with workshop, office or sales systems, and in consequence, after graduation, he must begin at the bottom and spend a year or two in routine, for which he receives low wages, in addition to which, at the end of his training, by starting in "green," he must begin at the bottom of an organization, and of the line of salary and of promotions.

4. The average student, by lack of familiarity with industrial methods, finds some difficulty in obtaining employment and often accepts any position that may be offered him. He usually loses from one to two years in finding agreeable employment or a position of a nature to which he is fitted. In other words, the graduate must "find himself," and if this is done too late in life, his salary is such as to require a sacrifice to shift to a department to which he is best suited.

5. Most students have no idea of the relative value of theory and practice. The so-called "practical man" realizes the necessity of training too late. The "theorist" becomes involved in a fog of useless computations.